

ABSTRACT OF THE DISCLOSURE

A first downlink transmission beam and a second downlink transmission beam is determined based on a received user-derived signal. The first downlink transmission beam is substantially uncorrelated with the second downlink transmission beam. The first downlink transmission beam is associated with a portion within a first sector. The second downlink transmission beam is associated with a portion within a second sector. A first signal is diversity encoded to produce a first diversity-encoded signal. A second signal is diversity encoded to produce a second diversity-encoded signal. The first diversity-encoded signal is sent over the first downlink transmission beam. The second diversity-encoded signal is sent over the second downlink transmission beam.